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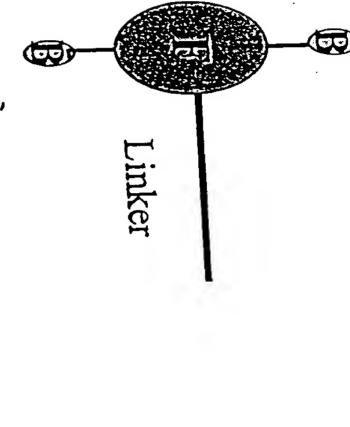
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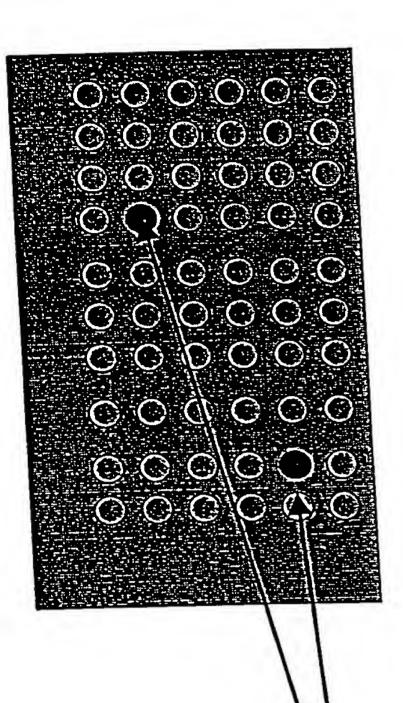
Library of Bioactive
Compounds

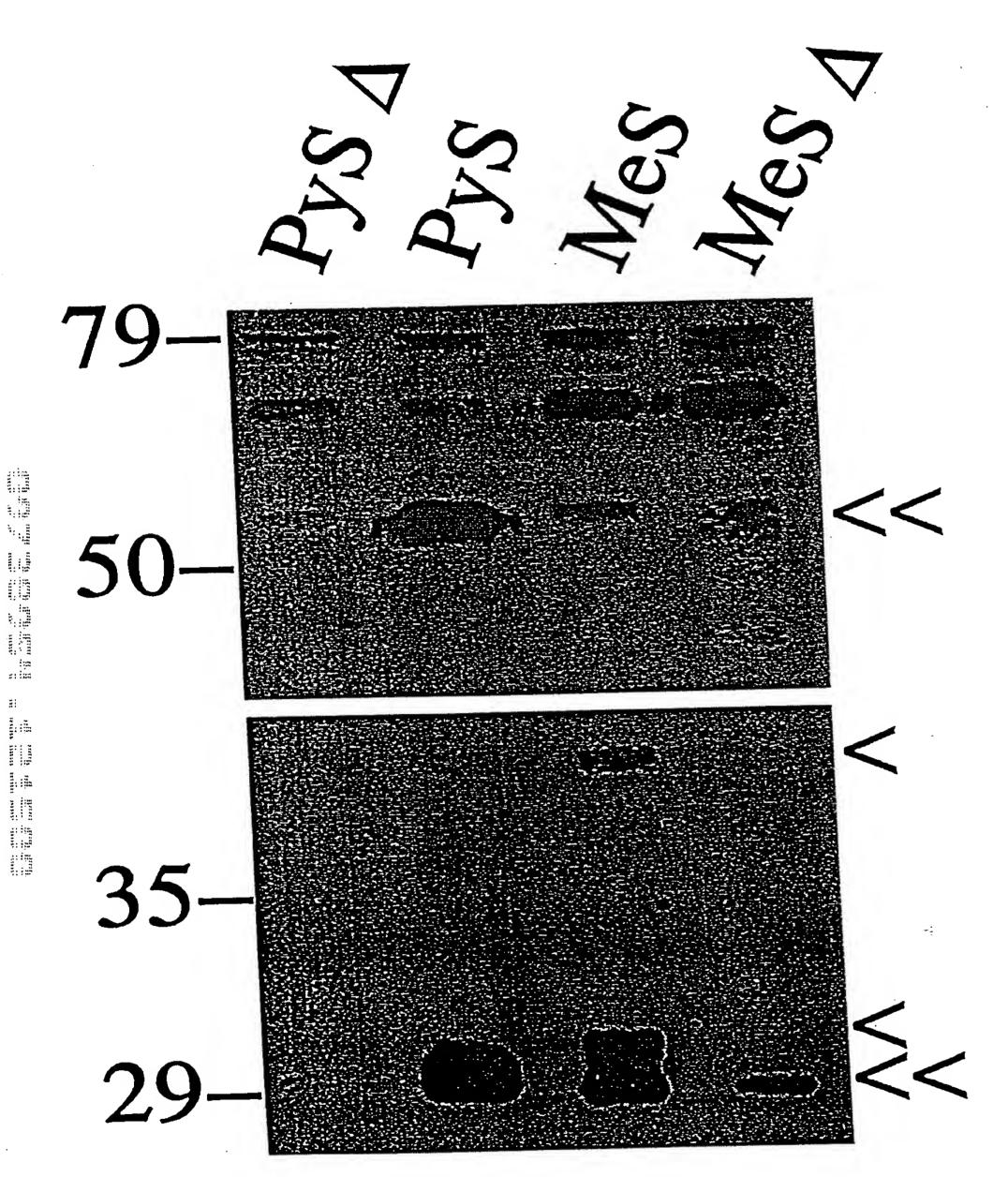


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Library of Target II Compounds

Use corresponding activity-based probe to identify the biological target

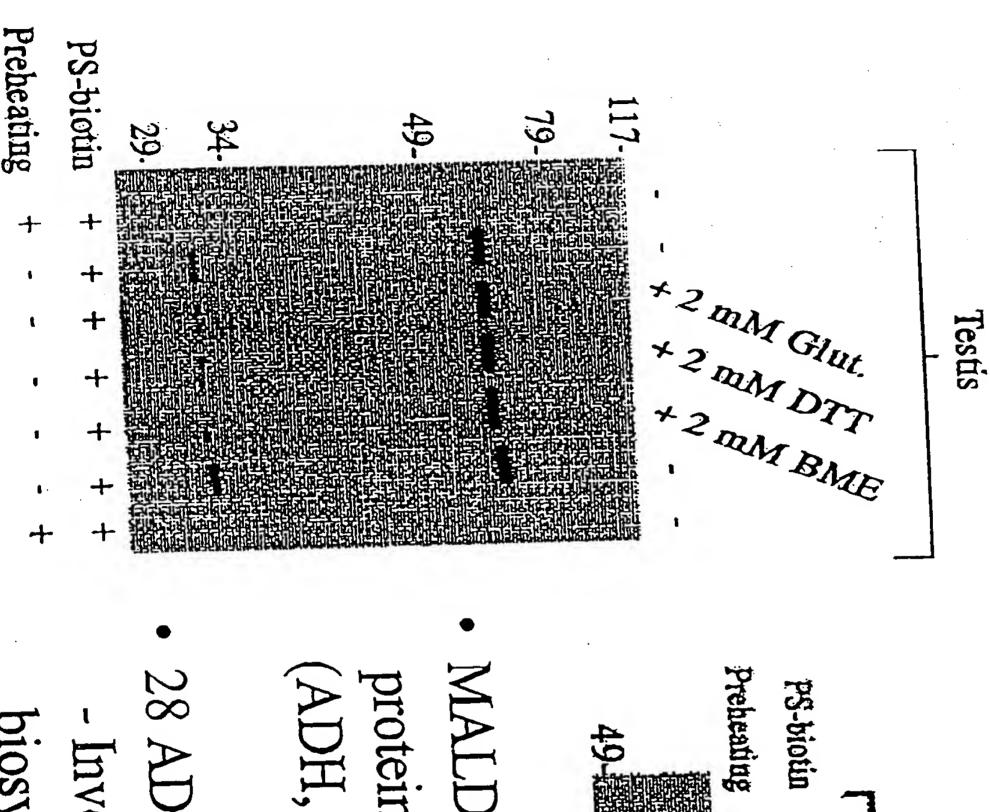


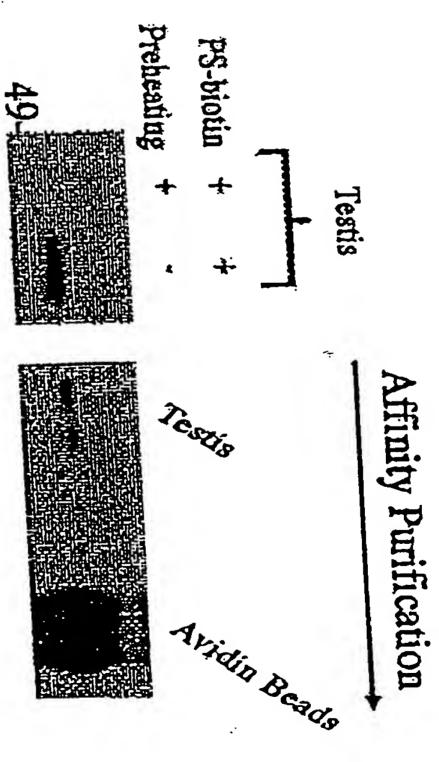




Non-Directed Tagged Library of Sulfonates Identifies Probe for ADH Superfamily of Enzymes

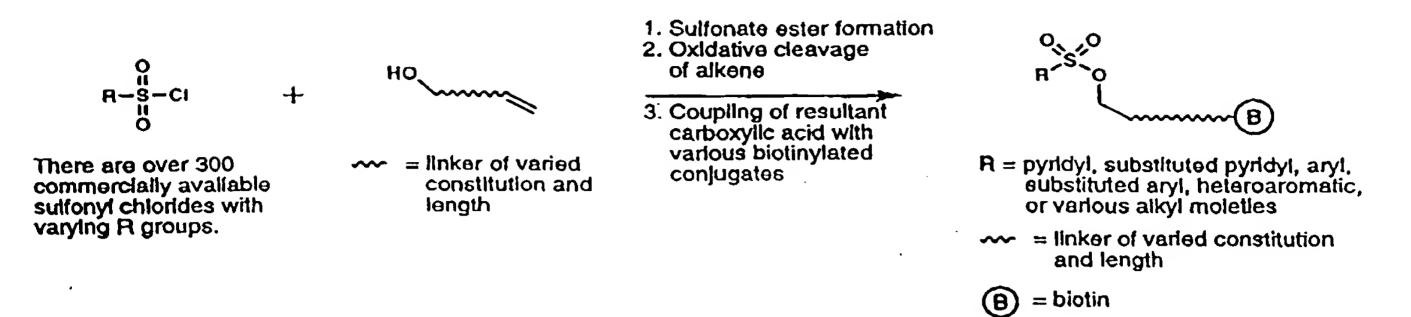
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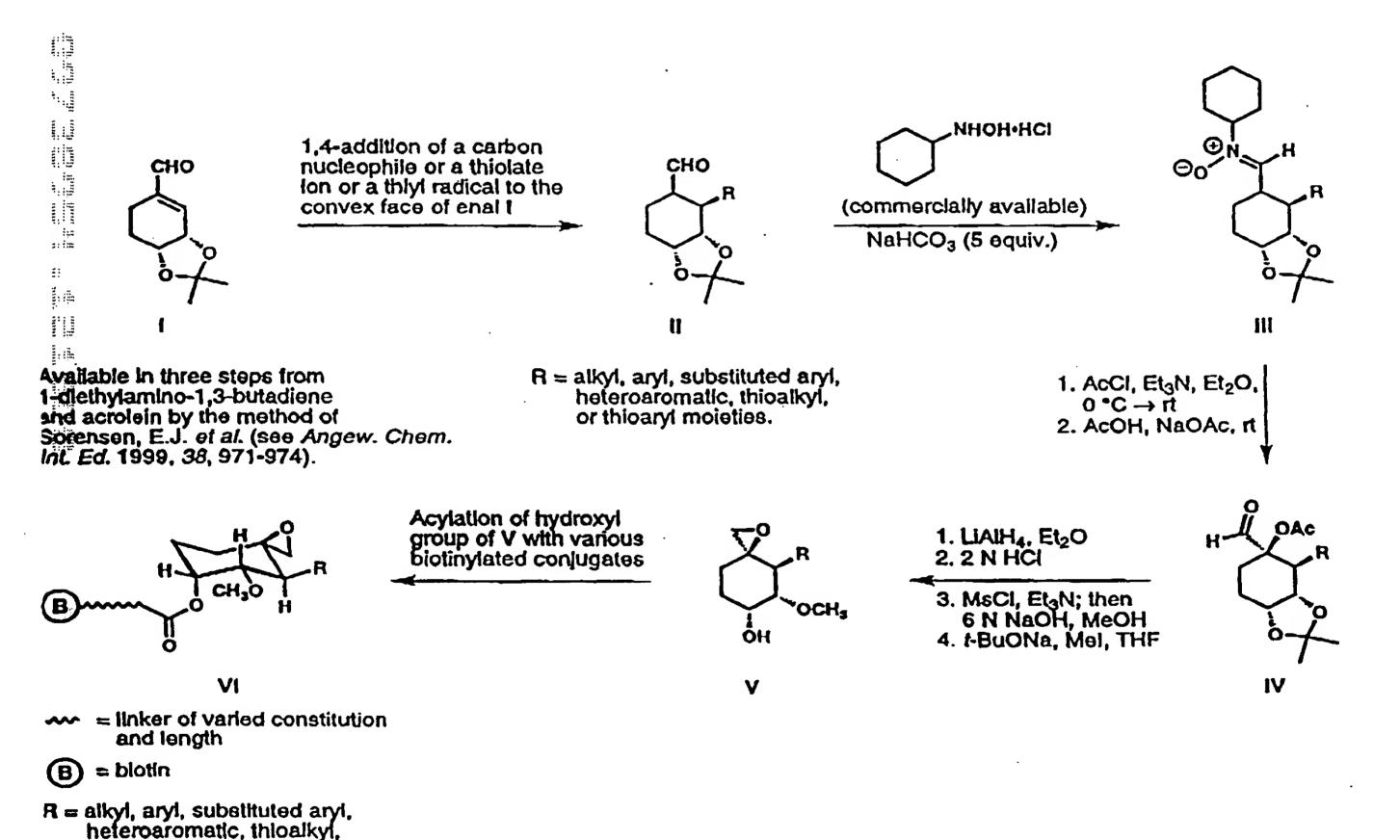


- MALDI mapping identifies tagged protein as aldehyde dehydrogenase (ADH, cytosolic class II)
- Involved in retinoic acid biosynthesis and catabolism of alcohol and chemotherapeutic agents

FIGURE 4



icheme 1. A pathway for syntheses of various biotinylated sulfonate esters for use in activity-based proteomics studies.



Sch me 2. A strategy for convergent, stereocontrolled syntheses of conformationally well-defined spiroepoxides of type VI. Literature precedent for $I \rightarrow II \rightarrow III \rightarrow IV \rightarrow V$ can be found in Sorensen. E.J. et al. Angew. Chem. Int. Ed. 1999, 38, 971-974. Compounds of type VI are analogs of the metalloprotease (MetAp-2) inhibitor furnagillin and will be employed as covalent affinity agents in activity-based protomics studies.

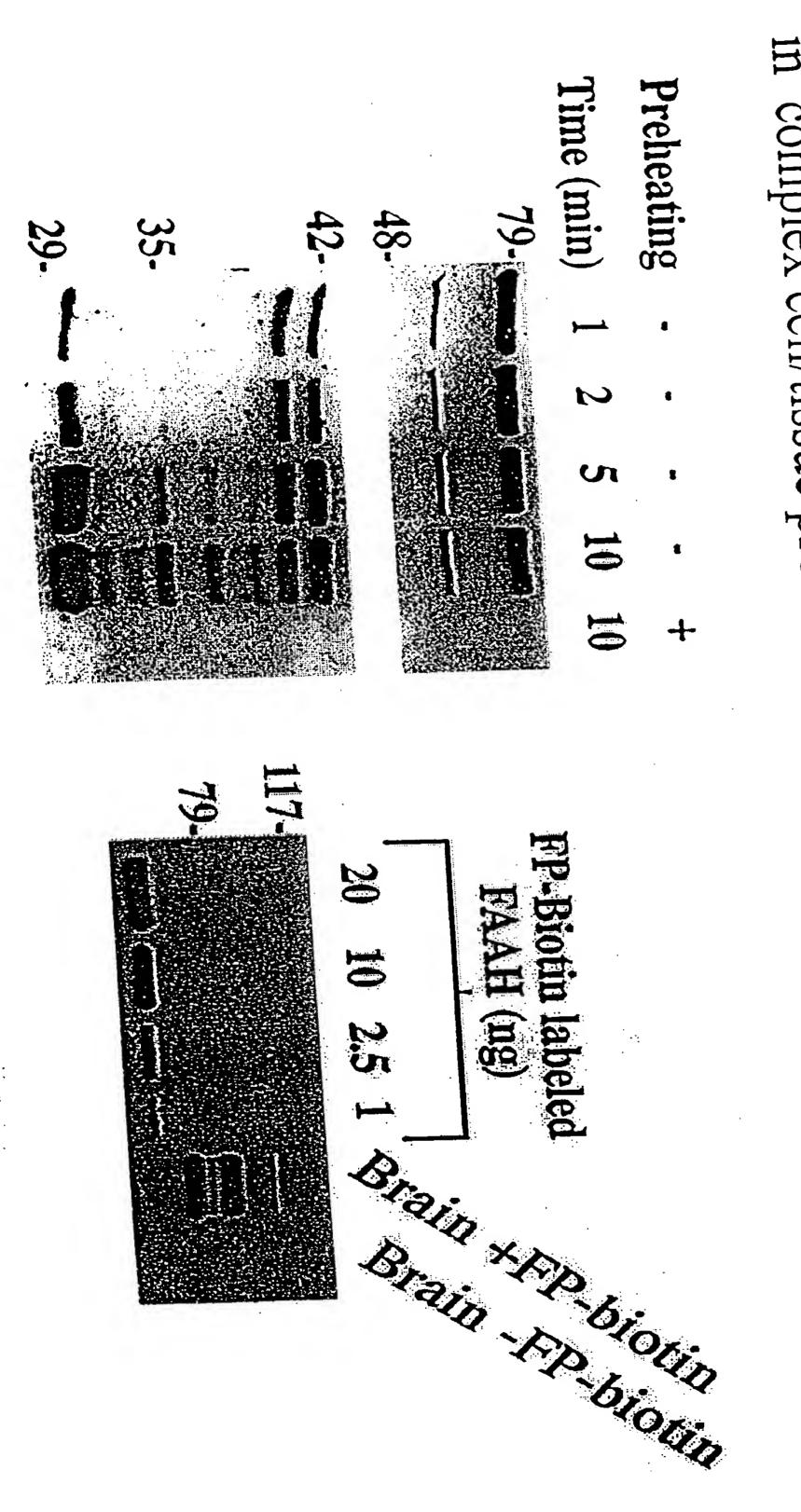
or thioaryl moletles.

FP-Biotin: a kinetic reporter of SH Activity

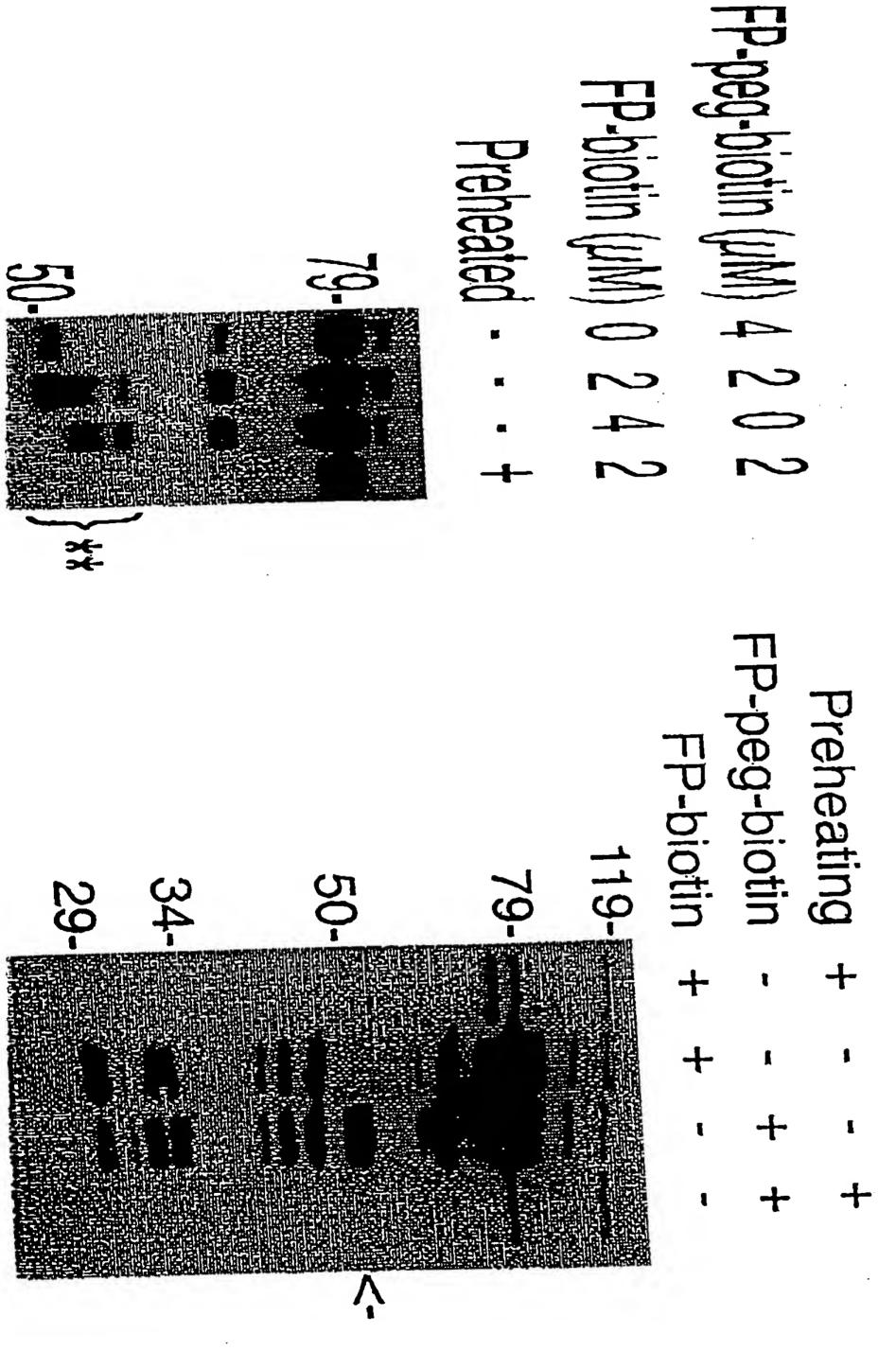
The rates at which the majority of SHs react with FP-biotin can be

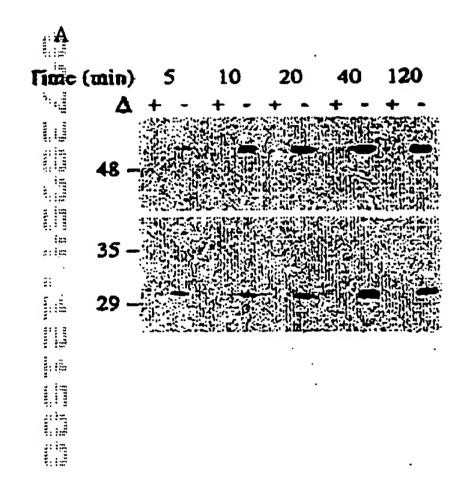
experimentally followed ntities of SHs directly

in complex cell/tissue proteomes FP-biotin readily detects low femtomole qua-

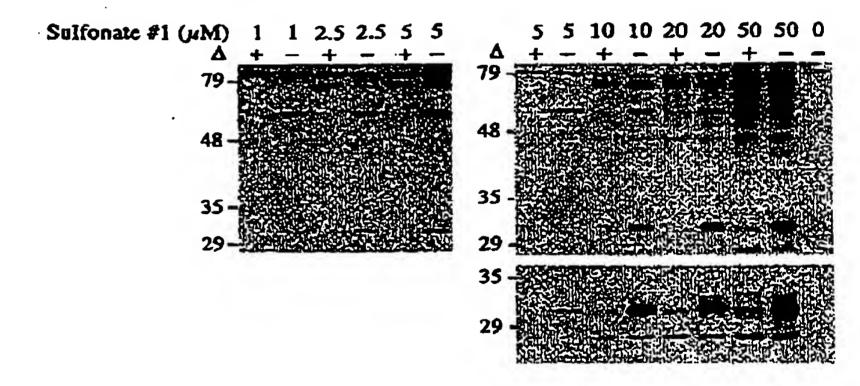


Utility of Multiplexed probes in ide Serine Hydrolases

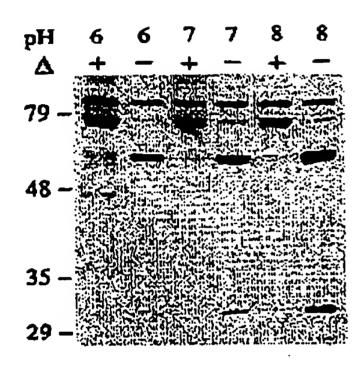


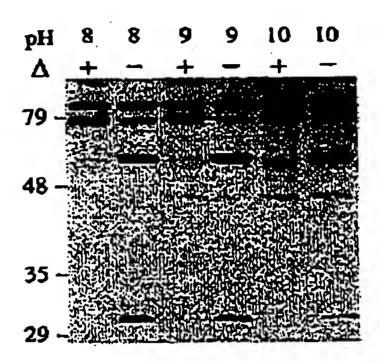


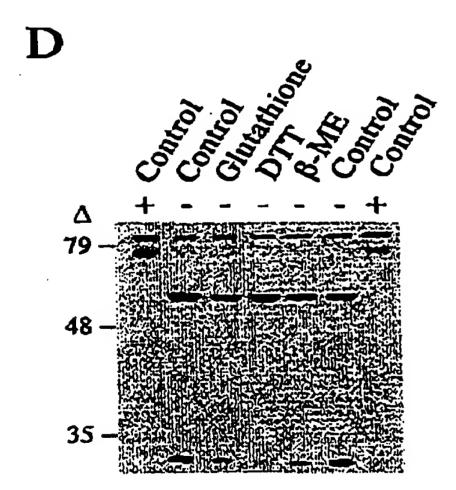




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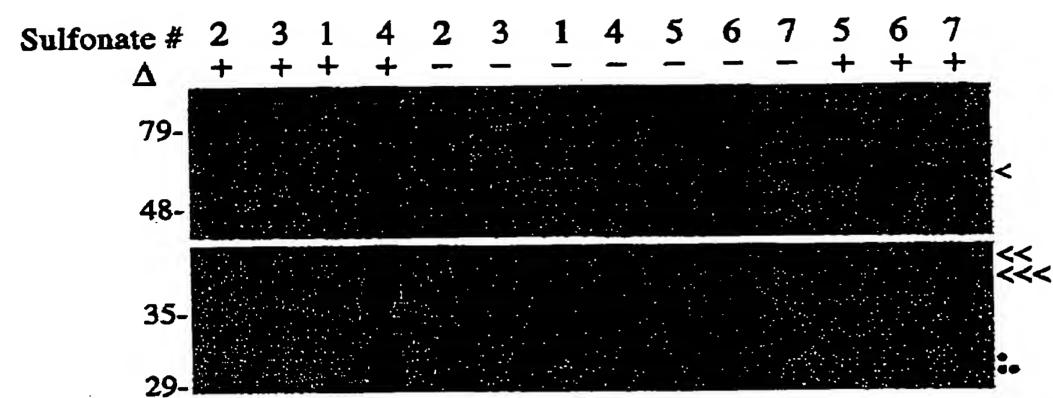
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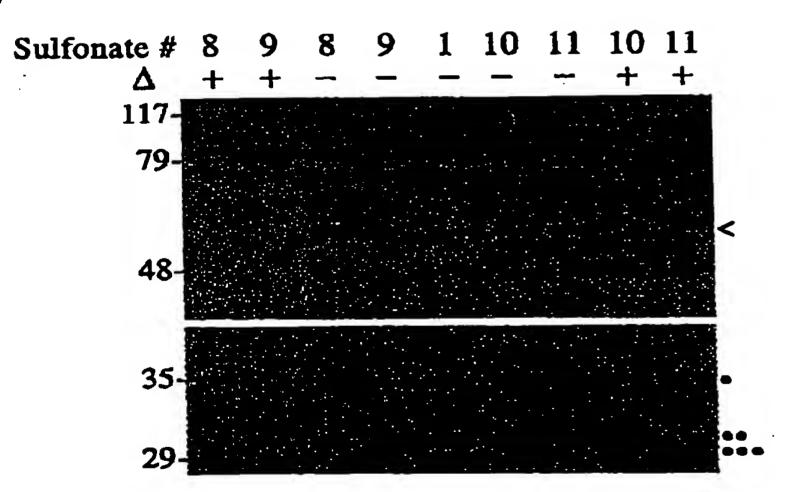
$$R = \frac{1}{\sqrt{N}} + \frac{1}{\sqrt{N}} +$$

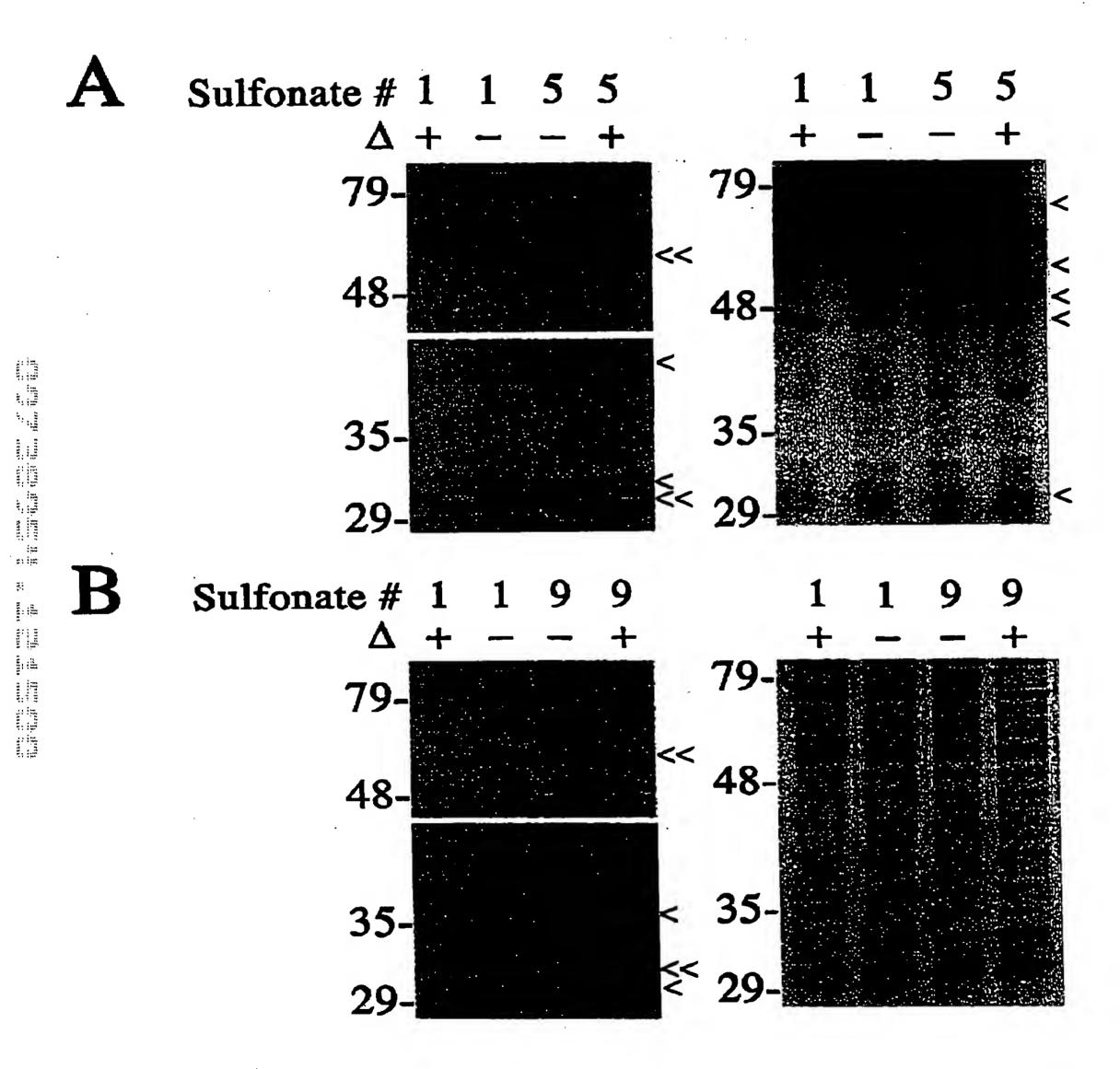
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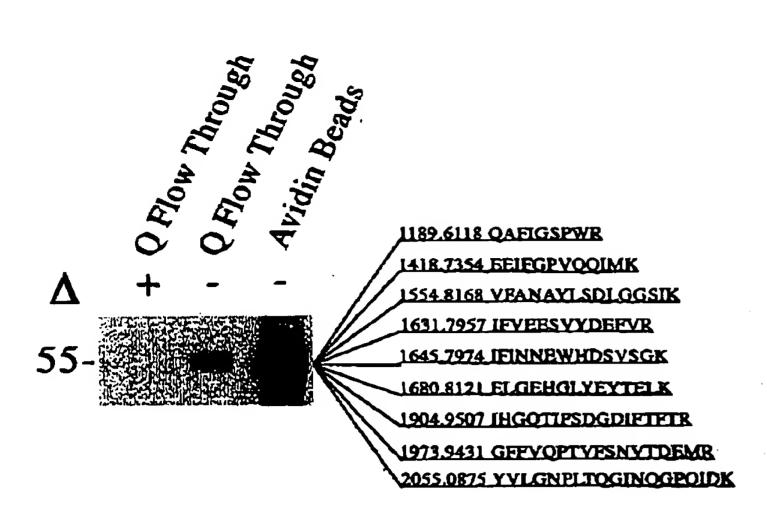


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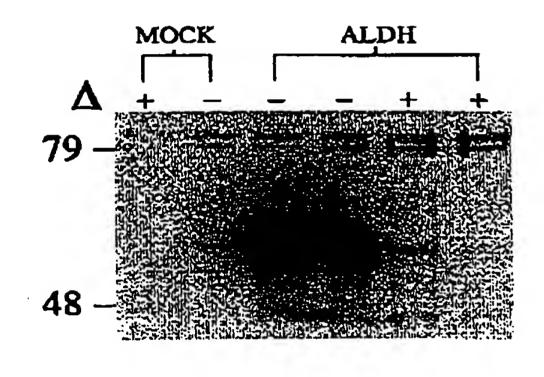


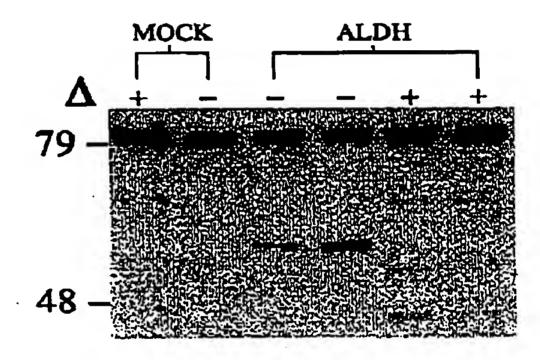




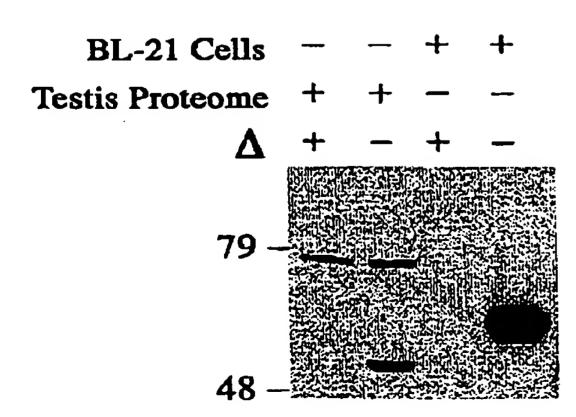




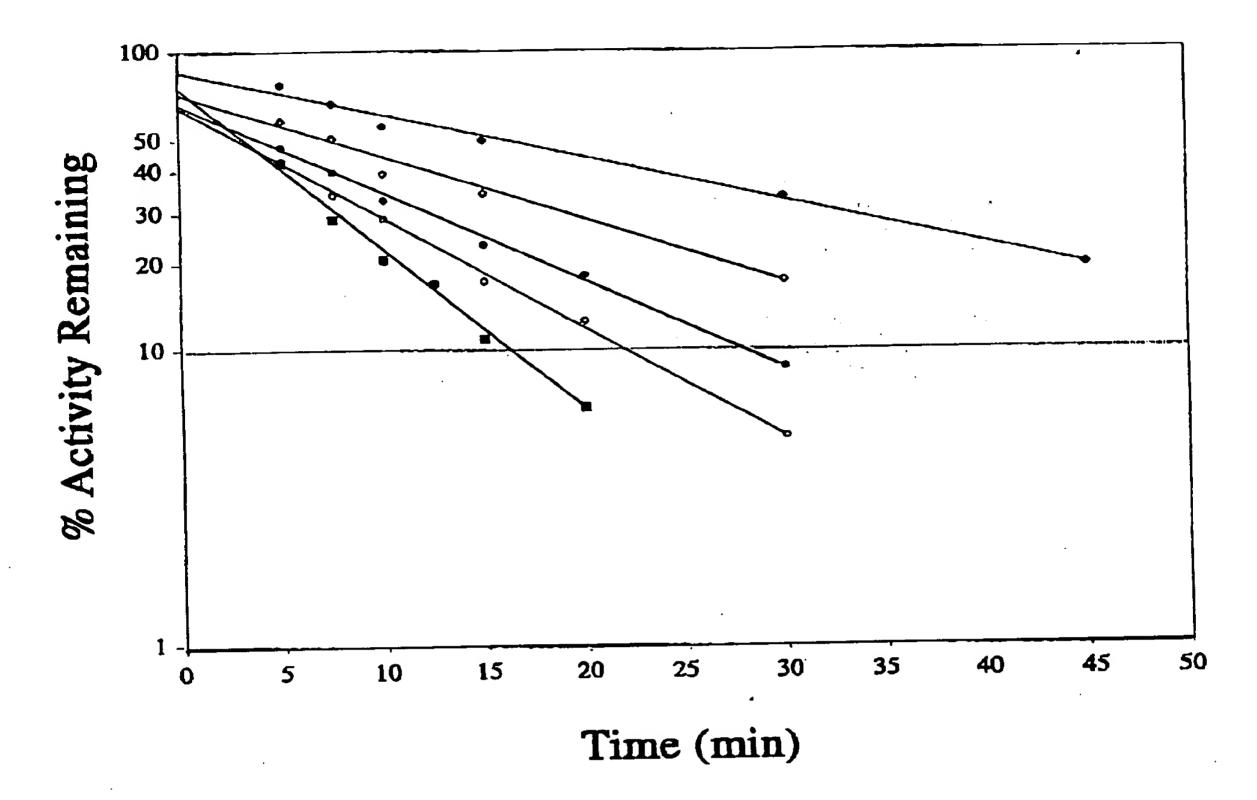


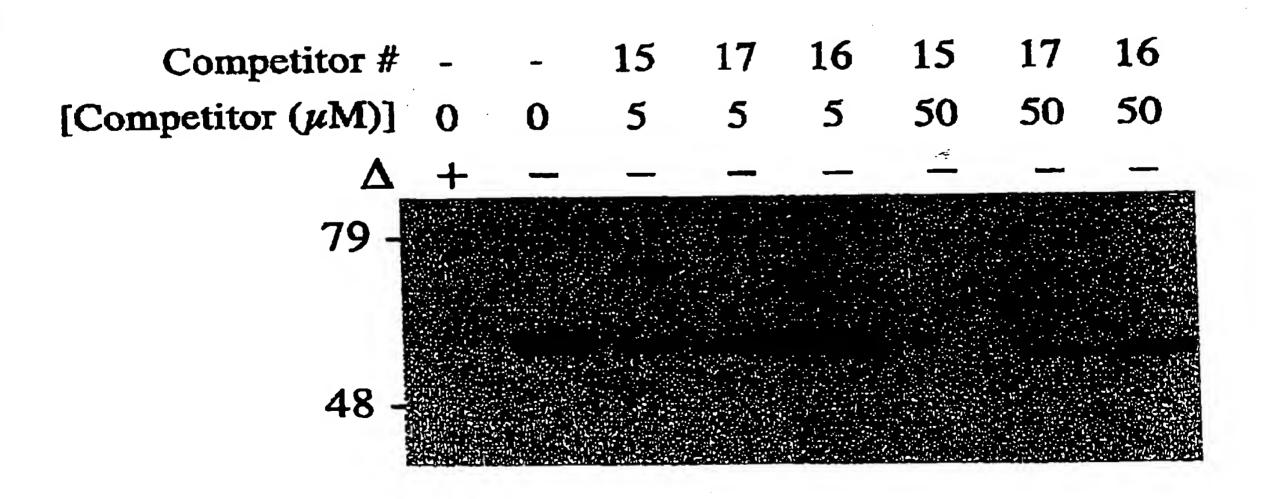


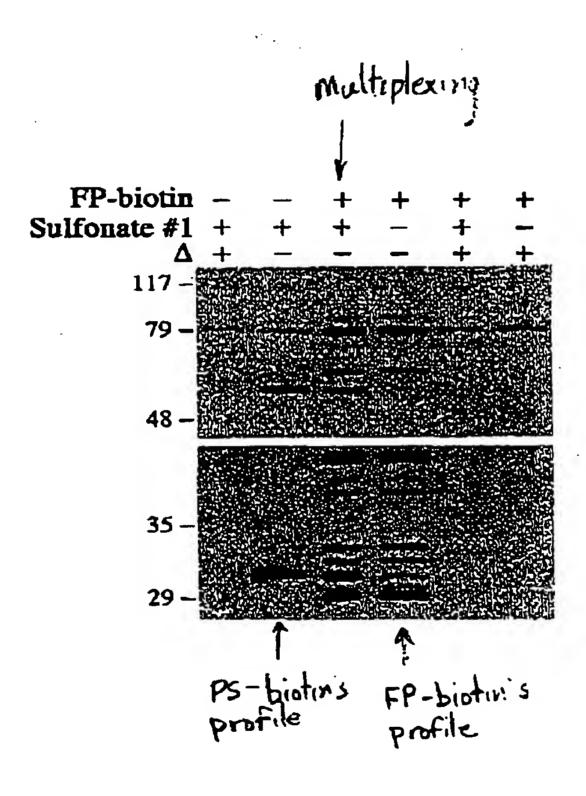
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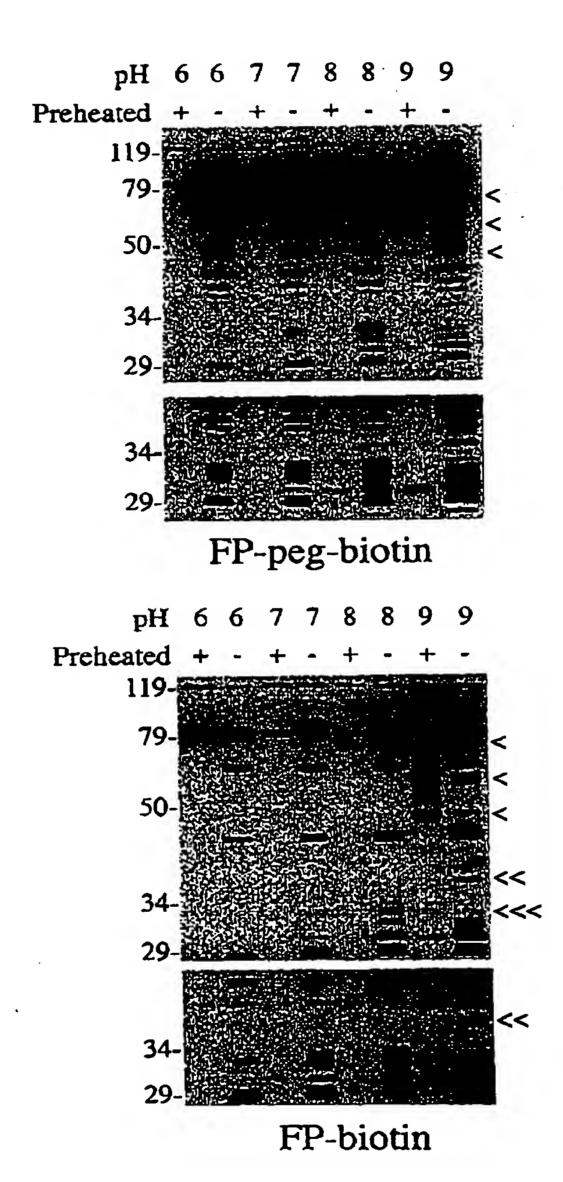


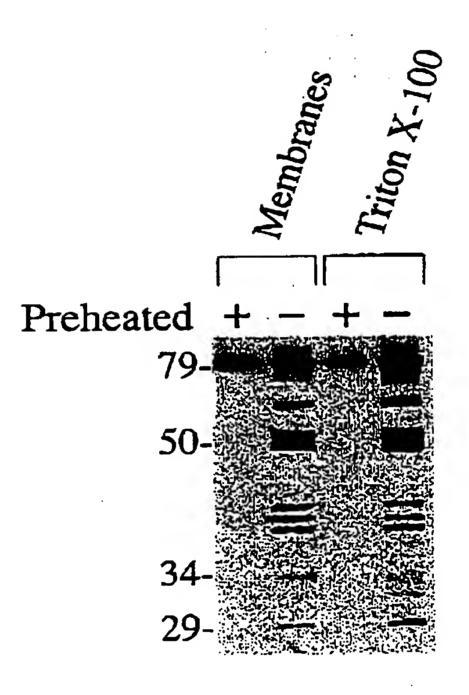


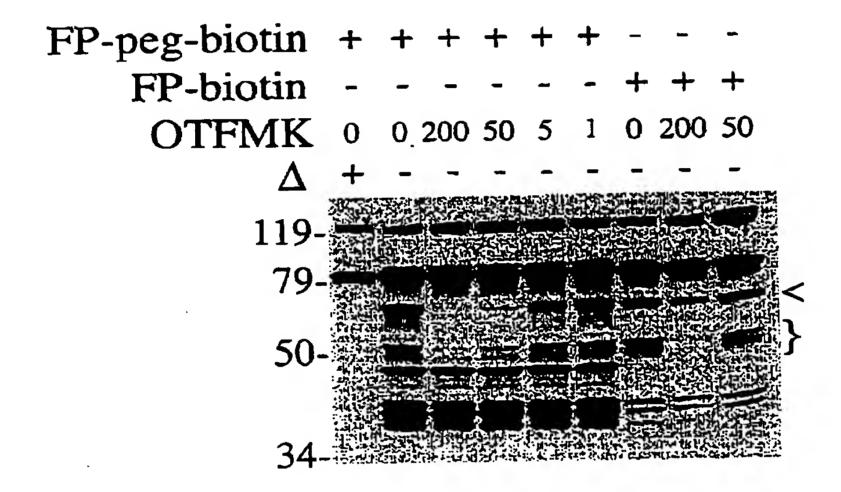




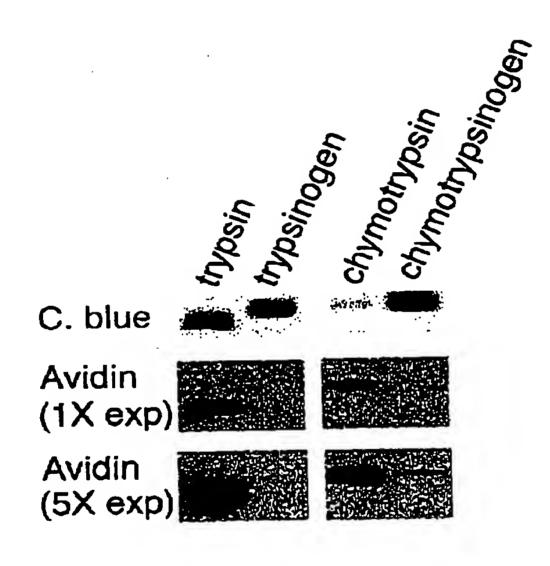




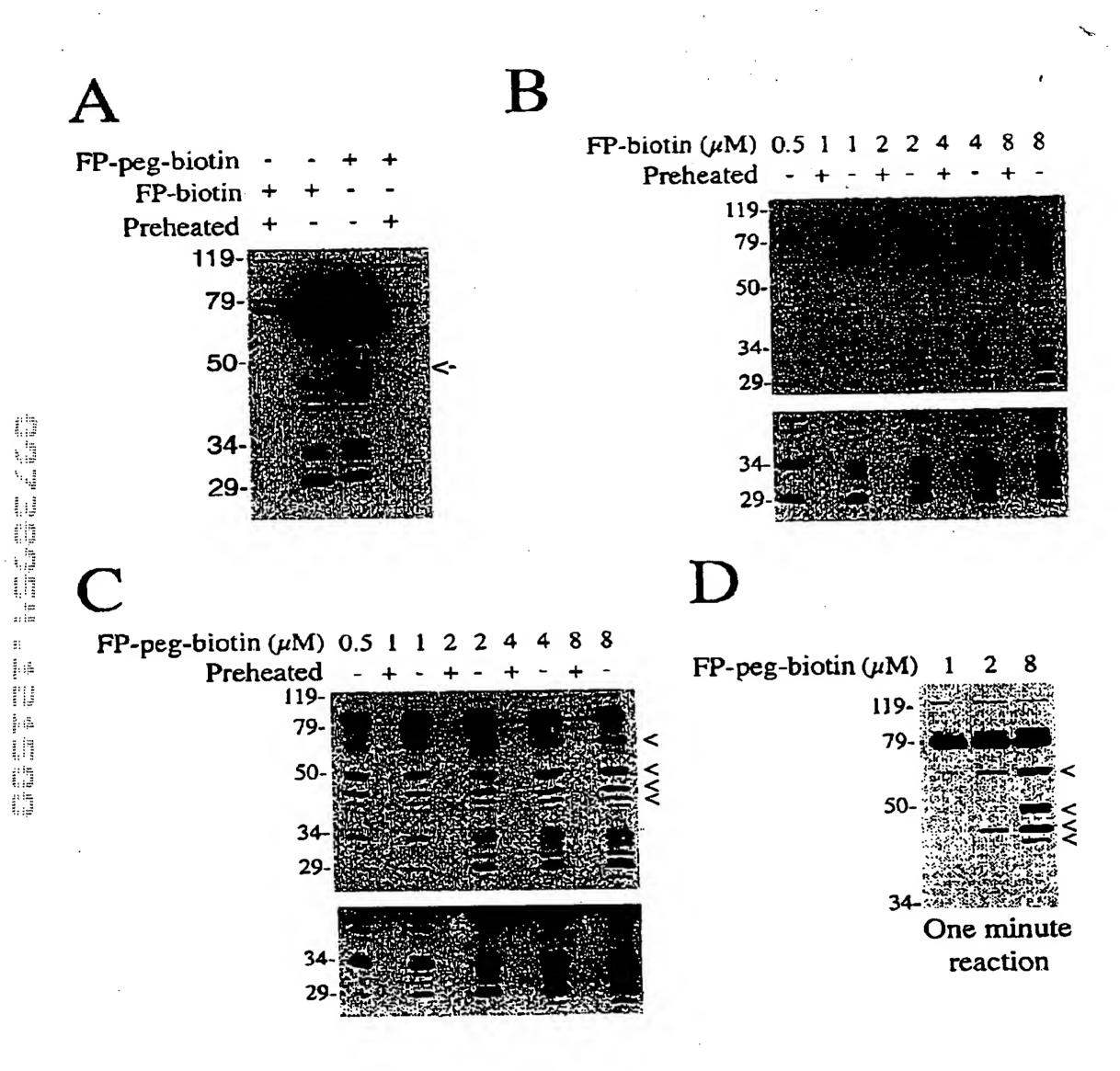


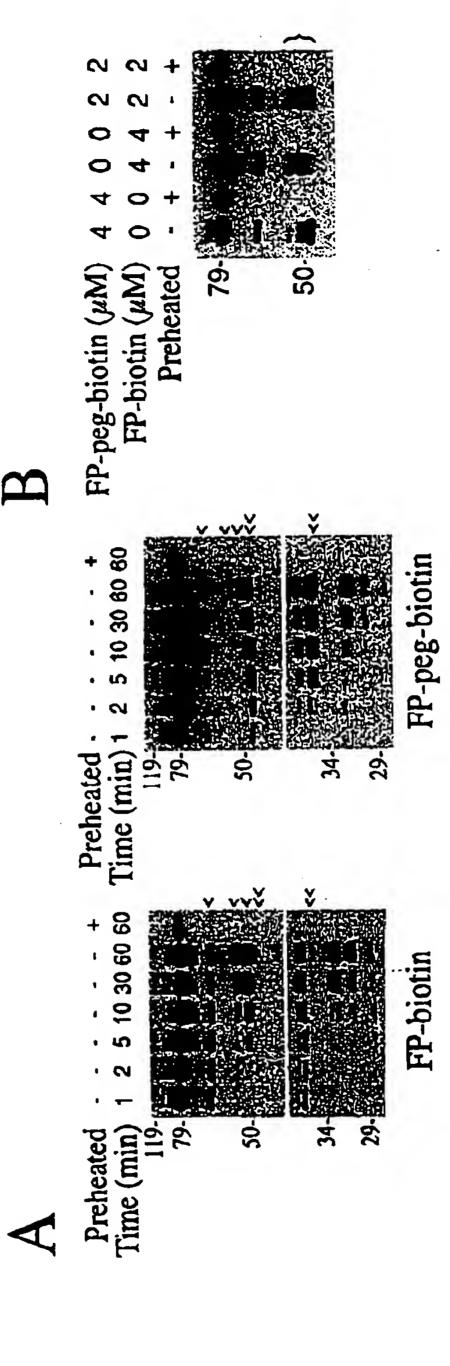


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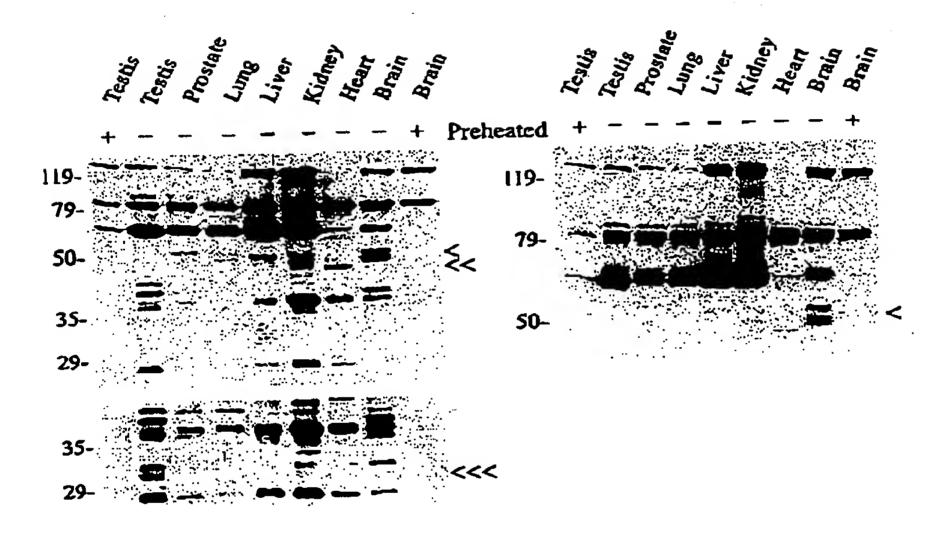


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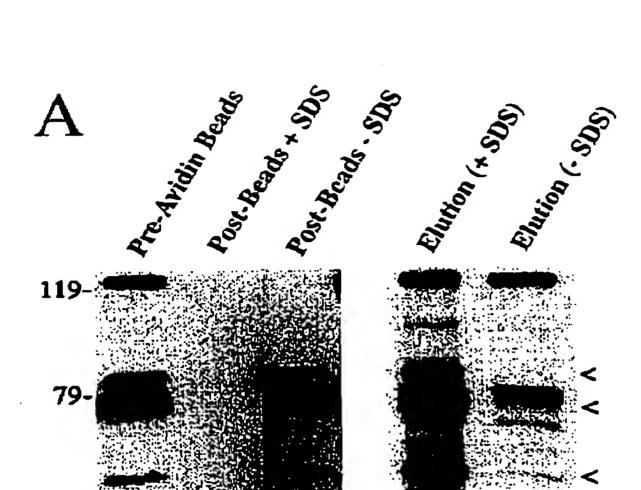


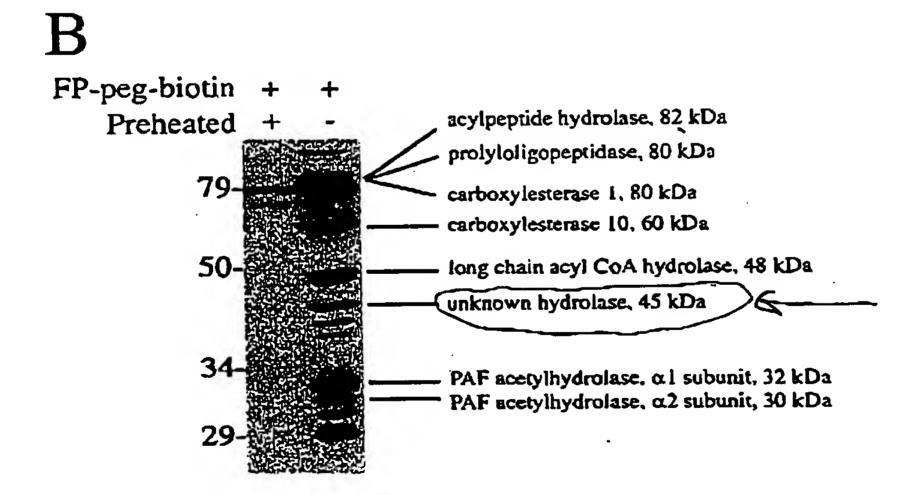
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